

ABSTRACT

A smectic liquid crystal device and process for producing the same are provided to realize uniform orientation of a smectic liquid crystal with no nematic phase in a phase sequence represented by an antiferroelectric liquid crystal; and a process for producing the same. The process comprises the steps of inducing an isotropic phase-nematic phase-smectic phase as a phase sequence of mixture obtained by adding a photopolymerizable monomer liquid crystal exhibiting nematic phase to a smectic liquid crystal; and irradiating the mixture with UV rays so that the monomer is photopolymerized into a polymer to thereby form a smectic liquid crystal medium with uniform orientation structure.